
53. **(Amended)** A single chain class II MHC molecule comprising:

a peptide-binding groove and

covalently linked in sequence: 1) a class II β chain, 2) a single chain linker, and 3) a class

D_1 II α chain,

wherein the chain of 1) or 3) or both 1) and 3) lack a transmembrane domain and

the chain of 1) or 3) or both 1) and 3) are truncated compared to its respective full length chain.

D_2 55. **(Amended)** The MHC molecule of claim 53, wherein the chain of 1) comprises a $\beta 1$

domain and the chain of 3) comprises an $\alpha 1$ domain.

66. **(Amended)** A single chain MHC class II-peptide complex comprising:

a peptide-binding groove;

covalently linked in sequence: 1) a class II β chain, 2) a single chain linker, and 3) a class

II α chain, wherein the chain of 1) or 3) or both 1) and 3) lack a transmembrane domain and the chain of 1) or 3) or both 1) and 3) are truncated compared to its respective full length chain; and

a presenting peptide being covalently linked to the MHC molecule.

D_3 67. **(Amended)** The MHC complex of claim 66, wherein the complex is soluble.

68. **(Amended)** The MHC complex of claim 66, wherein the chains of 1) and 3) comprise a $\beta 1$ domain and α domain, respectively.

69. **(Amended)** The MHC complex of claim 66, wherein the MHC class II molecule comprises the presenting peptide covalently linked to the β chain.

D_4 71. **(Amended)** The MHC complex of claim 66, wherein a presenting peptide linker sequence is interposed between the presenting peptide and the MHC molecule.

72. **(Amended)** The MHC complex of claim 66, wherein the β and α chains are each independently selected from the group consisting of IE, IA, DR, DQ and DP proteins.

73. **(Amended)** The MHC complex of claim 66, wherein the MHC molecule is modified to carry a detectable tag.

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Cont 74. **(Amended)** A multivalent MHC complex comprising two or more linked MHC molecules of claim 66.

75. **(Amended)** The MHC complex of claim 74, wherein the MHC molecules are linked to immunoglobulin domains.

76. **(Amended)** The MHC complex of claim 74, wherein the MHC complex is modified to carry a detectable tag.
